

Appl. No. 10/083,001
Amdt. dated November 20, 2003
Reply to Office Action of August 28, 2003

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1.(PRESENTLY AMENDED)

A closure for use with a container having a neck

portion and container threading formed thereon, comprising:

a top wall;

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an annular skirt depending from the top wall and having closure threading formed on an inner surface thereof configured and arranged to threadably engage the container threading; and

at least one flexible anti-backoff member extending circumferentially on the skirt in a region of the closure threading and being arranged and configured to deflect and frictionally engage the container threading between the anti-backoff member and the closure threading to resist movement of the closure once secured onto the neck of the container;

wherein an ~~angular inclination~~ a lead angle of the at least one anti-backoff member is different from an ~~angular inclination~~ a lead angle of the closure threading.

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2.(PREVIOUSLY PRESENTED) The closure of claim 1, wherein the at least one anti-backoff member forms an integral extension of a portion of the closure threading.

3.(PRESENTLY AMENDED) A closure for use with a container having a neck portion and container threading formed thereon, comprising:

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a top wall;

an annular skirt depending from the top wall and having closure threading formed on an inner surface thereof configured and arranged to threadably engage the container threading; and

at least one flexible anti-backoff member formed in a region of the closure threading and being arranged and configured to deflect and frictionally engage the container threading between the anti-backoff member and the closure threading to resist movement of the closure once secured onto the neck of the container;

wherein the at least one anti-backoff member is oriented generally parallel to the top wall of the closure.

4.(PREVIOUSLY PRESENTED) The closure of claim 1, wherein the at least one anti-backoff member forms an integral extension of an uppermost portion of the closure threading.

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5.(PRESENTLY AMENDED)

A closure for use with a container having a neck

portion and container threading formed thereon, comprising:

a top wall;

an annular skirt depending from the top wall and having closure threading
formed on an inner surface thereof configured and arranged to threadably engage the
container threading; and

at least one anti-backoff member extending circumferentially on the skirt in
a region of the closure threading and being arranged and configured to frictionally engage
the container threading between the anti-backoff member and the closure threading to
resist movement of the closure once secured onto the neck of the container;

wherein an angular inclination of the at least one anti-backoff member is
different from an angular inclination of the closure threading, and the at least one anti-
backoff member forms an integral extension of an uppermost portion of the closure
threading and ~~The closure of claim 4, wherein the at least one anti-backoff member is~~
oriented generally parallel to the top wall of the closure.

6.(PREVIOUSLY PRESENTED)

The closure of claim 1, wherein the closure
threading is segmented into a plurality of circumferentially spaced closure threading
groups, and wherein at least one of the closure threading groups has the at least one anti-
backoff member associated therewith.

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7.(PRESENTLY AMENDED) The closure of claim 6, wherein the at least one anti-backoff member forms an integral extension of a portion of the closure threading in at least one of the closure threading groups.

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8.(ORIGINAL) The closure of claim 7, wherein the at least one anti-backoff member is oriented generally parallel to the top wall of the closure.

9.(PREVIOUSLY PRESENTED) The closure of claim 6, wherein the at least one anti-backoff member forms an integral extension of an uppermost portion of the closure threading in at least one of the closure threading.

10.(ORIGINAL) The closure of claim 9, wherein the at least one anti-backoff member is oriented generally parallel to the top wall of the closure.

11.(ORIGINAL) The closure of claim 1, wherein the at least one anti-backoff member has a depth relative to an inner surface of the annular skirt that exceeds a depth of the closure threading relative to the inner surface of the annular skirt.

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12.(PRESENTLY AMENDED)

A closure for use with a container having a neck

portion and container threading formed thereon, comprising:

a top wall;

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an annular skirt depending from the top wall and having closure threading
formed on an inner surface thereof configured and arranged to threadably engage the
container threading, the closure threading being segmented into a plurality of
circumferentially spaced closure threading groups;

The closure of claim 6 further comprising a plurality of anti-backoff members
each formed in a region of the closure threading in at least one of the closure threading
groups, extending circumferentially on the skirt and being arranged and configured to
frictionally engage the container threading between the anti-backoff member and the
closure threading to resist movement of the closure once secured onto the neck of the
container;

wherein an angular inclination of the at least one anti-backoff member is
different from an angular inclination of the closure threading.

13.(PREVIOUSLY PRESENTED)

The closure of claim 12, wherein the

plurality of anti-backoff members form integral extensions of a portion of the closure
threading in at least one of the closure threading groups.

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14.(ORIGINAL) The closure of claim 13, wherein the plurality of anti-backoff members are oriented generally parallel to the top wall of the closure.

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15.(PREVIOUSLY PRESENTED) The closure of claim 12, wherein the plurality of anti-backoff members form integral extensions of an uppermost portion of the closure threading in at least one of the closure threading groups.

16.(ORIGINAL) The closure of claim 15, wherein the plurality of anti-backoff members are oriented generally parallel to the top wall of the closure.

17.(PREVIOUSLY PRESENTED) A closure for use with a container having a neck portion and container threading formed thereon, comprising:

a top wall;
an annular skirt depending from the top wall and having closure threading formed on an inner surface thereof configured and arranged to threadably engage the container threading; and

a plurality of anti-backoff members formed in a region of the closure threading and being arranged and configured to frictionally engage the container threading between the anti-backoff member and the closure threading to resist movement of the closure once secured onto the neck of the container;

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wherein the closure threading is segmented into a plurality of circumferentially spaced closure threading groups, and wherein at least one of the closure threading groups has at least one of the anti-backoff members associated therewith;

wherein the plurality of anti-backoff members are formed in a region of the closure threading in at least one of the closure threading groups;

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wherein each of the plurality of anti-backoff members has a depth relative to an inner surface of the annular skirt that exceeds a depth of the closure threading relative to the inner surface of the annular skirt.

18.(PRESENTLY AMENDED) A closure for use with a container having a neck portion and container threading formed thereon, comprising:

a top wall;

an annular skirt depending from the top wall and having closure threading formed on an inner surface thereof configured and arranged to threadably engage the container threading; and

at least one anti-backoff member formed as an integral extension of a portion of the closure threading and extending in a circumferential direction about the annular skirt, the at least one anti-backoff member being arranged and configured to frictionally engage the container threading in an axial direction on the skirt between the anti-backoff member

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and the closure threading to resist movement of the closure once secured onto the neck of the container;

wherein a lead angle of the at least one anti-backoff member is different from a lead angle of the closure threading.

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A closure for use with a container having a neck portion and container threading formed thereon, comprising:

a top wall;

an annular skirt depending from the top wall and having closure threading formed on an inner surface thereof configured and arranged to threadably engage the container threading; and

at least one anti-backoff member formed as an integral extension of a portion of the closure threading and extending in a circumferential direction about the annular skirt, the at least one anti-backoff member being arranged and configured to frictionally engage the container threading in an axial direction on the skirt between the anti-backoff member and the closure threading to resist movement of the closure once secured onto the neck of the container;

The closure of claim 18, wherein the at least one anti-backoff member is oriented generally parallel to the top wall of the closure.

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20.(ORIGINAL) The closure of claim 18, wherein the closure threading is segmented into a plurality of circumferentially spaced closure threading groups, and wherein at least one of the closure threading groups has at least one of the anti-backoff members associated therewith.

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21.(ORIGINAL) The closure of claim 20, wherein the at least one anti-backoff member forms an integral extension of a portion of the closure threading in at least one of the closure threading groups and extends in a circumferential direction about the annular skirt.

22.(ORIGINAL) The closure of claim 21, wherein the at least one anti-backoff member is oriented generally parallel to the top wall of the closure.

23.(PRESENTLY AMENDED) A closure for use with a container having a neck portion and container threading formed thereon, comprising:
a top wall;
an annular skirt depending from the top wall and having closure threading formed on an inner surface thereof configured and arranged to threadably engage the container threading; and

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at least one anti-backoff member formed as an integral extension of a portion of the closure threading and extending in a circumferential direction about the annular skirt, the at least one anti-backoff member being arranged and configured to frictionally engage the container threading between the anti-backoff member and the closure threading to resist movement of the closure once secured onto the neck of the container;

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wherein the at least one anti-backoff member has a depth relative to an inner surface of the annular skirt that exceeds a depth of the closure threading relative to the inner surface of the annular skirt;

wherein a lead angle of the at least one anti-backoff member is different from a lead angle of the closure threading.

24.(ORIGINAL) The closure of claim 20 further comprising a plurality of anti-backoff members formed in at least one of the closure threading groups.

25.(ORIGINAL) The closure of claim 24, wherein the plurality of anti-backoff members are oriented generally parallel to the top wall of the closure.

26.(PRESENTLY AMENDED) A closure for use with a container having a neck portion and container threading formed thereon, comprising:

a top wall;

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an annular skirt depending from the top wall and having closure threading formed on an inner surface thereof configured and arranged to threadably engage the container threading; and

a plurality of anti-backoff members each formed as an integral extension of a portion of the closure threading and extending in a circumferential direction about the annular skirt, each anti-backoff member being arranged and configured to frictionally engage the container threading between the anti-backoff member and the closure threading to resist movement of the closure once secured onto the neck of the container;

wherein the closure threading is segmented into a plurality of circumferentially spaced closure threading groups, and wherein at least one of the closure threading groups has at least one of the anti-backoff members associated therewith;

wherein each of the plurality of anti-backoff members has a depth relative to an inner surface of the annular skirt that exceeds a depth of the closure threading relative to the inner surface of the annular skirt;

wherein a lead angle of each of the anti-backoff members is different from a lead angle of the closure threading.

27.(PRESENTLY AMENDED)

A closure and container assembly, comprising:

a container having a neck portion and container threading formed thereon;

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a closure having a top wall, an annular skirt depending from the top wall and having closure threading formed on an inner surface thereof configured and arranged to threadably engage the container threading; and

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at least one flexible anti-backoff member extending circumferentially in a region of one of the closure threading and the container threading and being arranged and configured to deflect and frictionally engage the other of the container threading and the closure threading to resist movement of the closure once secured onto the neck of the container;

wherein an angular inclination a lead angle of the at least one anti-backoff member is different from an angular inclination a lead angle of at least one of the closure threading and the container threading.

28.(ORIGINAL) The assembly of claim 27 wherein the anti-backoff member is formed on the neck portion of the container.

29.(ORIGINAL) The assembly of claim 27 wherein the anti-backoff member is formed on the annular skirt of the closure.

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30.(PRESENTLY AMENDED) A closure and container assembly, comprising:

a container having a neck portion and container threading formed thereon;
a closure having a top wall, an annular skirt depending from the top wall and
having closure threading formed on an inner surface thereof configured and arranged to
threadably engage the container threading; and
at least one anti-backoff member formed as an integral extension of a portion
of the closure threading and extending in a circumferential direction about the annular skirt,
the at least one anti-backoff member being arranged and configured to frictionally engage
the container threading in an axial direction on the skirt between the anti-backoff member
and the closure threading to resist movement of the closure once secured onto the neck
of the container;

wherein a lead angle of the at least one anti-backoff member is different from
a lead angle of the closure threading.

31.(CANCELED)

32.(PREVIOUSLY PRESENTED) The combination of claim 27 wherein the at least
one anti-backoff member is oriented generally parallel to the top wall when the closure is
secured onto the neck of the container.

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33.(NEW) The assembly of claim 30 wherein the at least one anti-backoff member is flexible and deflects when engaged with the container threading.